

ABSTRACT

A selector 301 select one a directional signal corresponding to a group to which a transmission signal belongs on a path-by-path basis. A despreader 5 302 provides desreading to an output signal of the selector 301. A RAKE combiner 305 provides RAKE combing to a despread signal, and a determining device 306 provides temporary determination to the signal subjected to RAKE combing. A re-spreader 308 10 spreads a replica signal subjected to temporary determination. A divider 309 divides replica signals on a path-by-path basis to correspond to the directivity selected by the selector 301. Adders 310-1 and 310-2 add the replica signals divided by 15 the divider 309 on the directivity-by-directivity. This makes it possible to cancel interference in combination with an array antenna and to reduce the number of calculations and the circuit scale as an entirety of the apparatus.